Walchand College of Engineering, Sangli
Department of Computer Science and Engineering
Third Year – Programming Laboratory-3 (2021-22)
PRN: 2019BTECS00070
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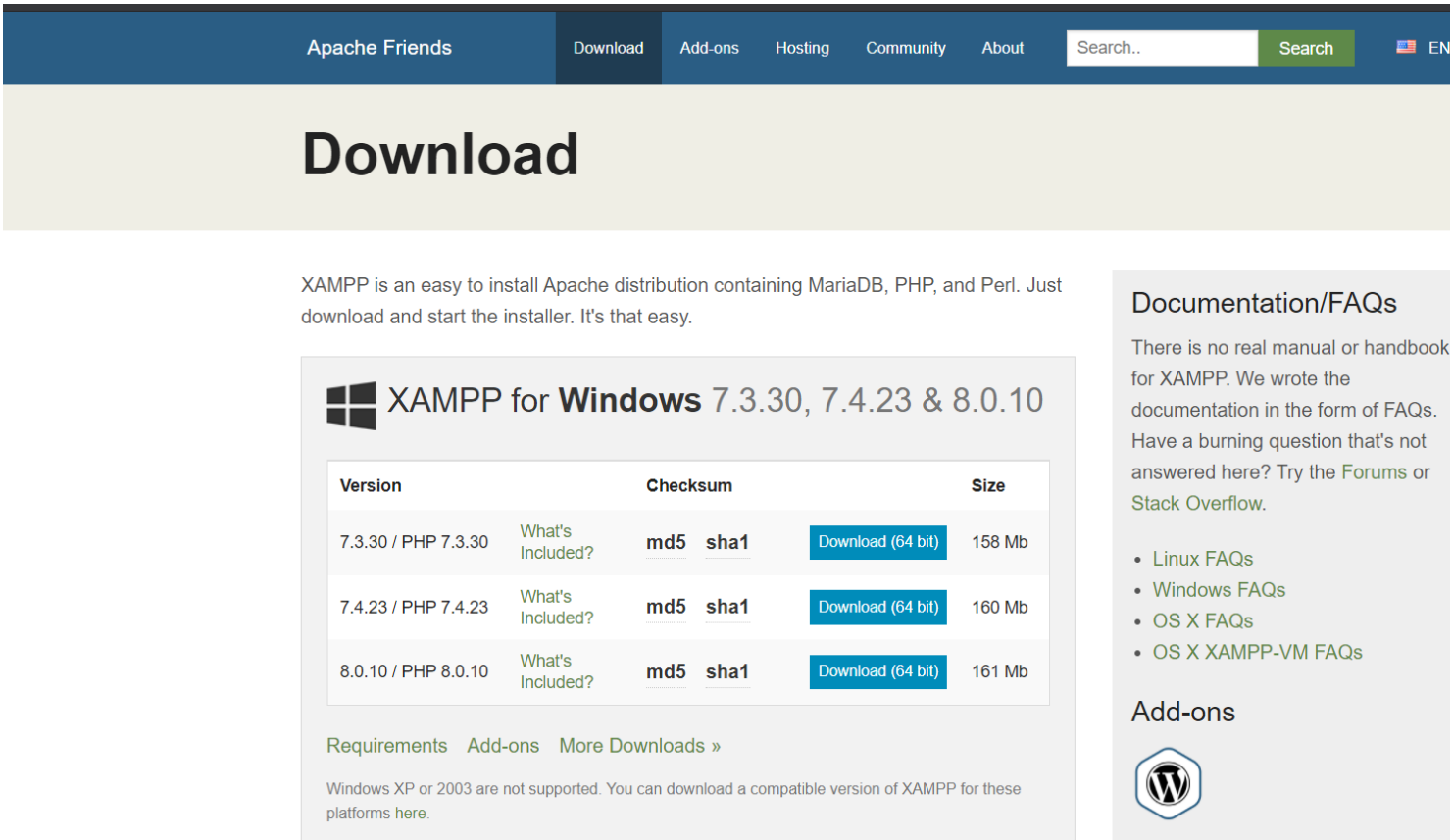
Practical No. 4: To install and configure a Web Server.

Problem Statement 1:

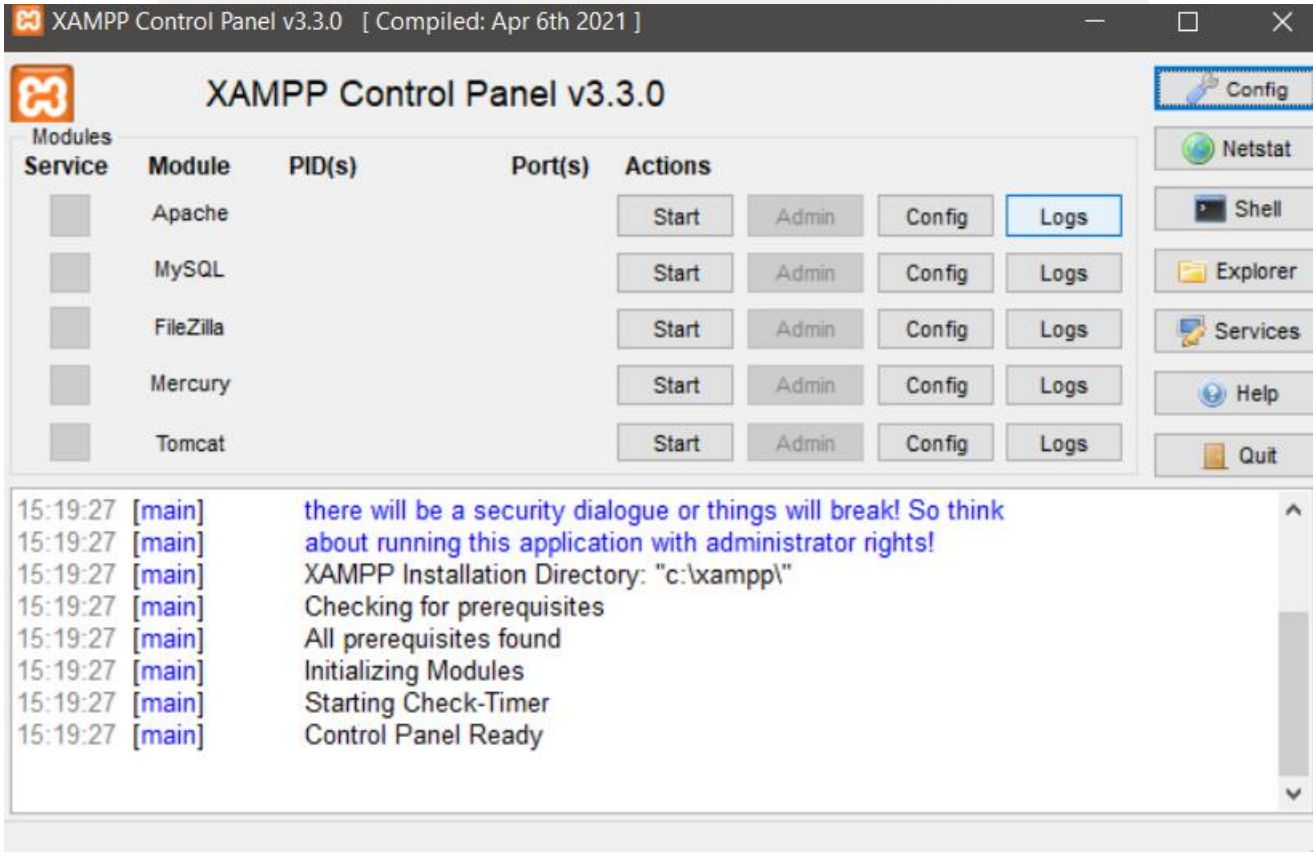
1. **Install a web server on your machine. Run the server locally.**

ANS:

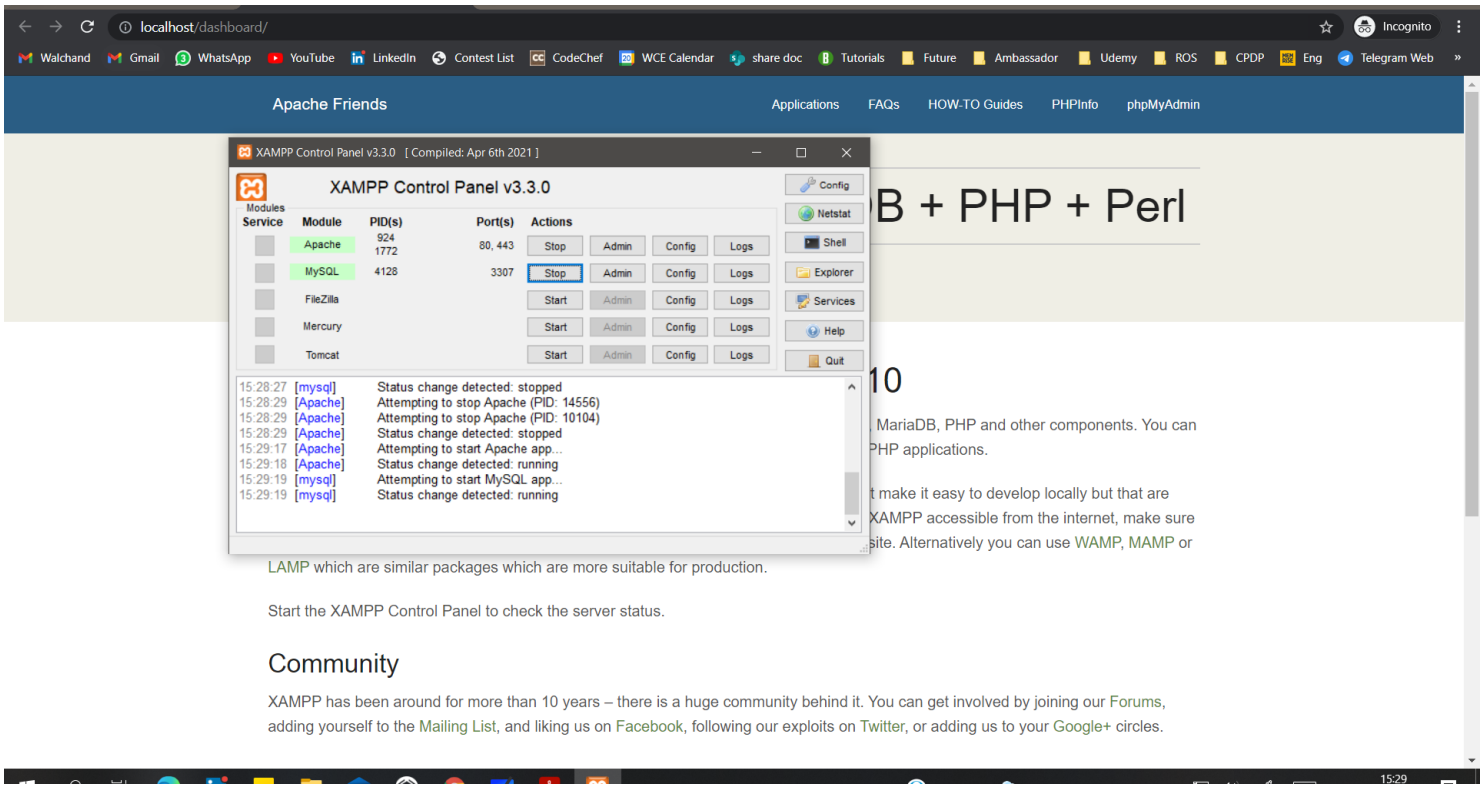
a. **Download –**



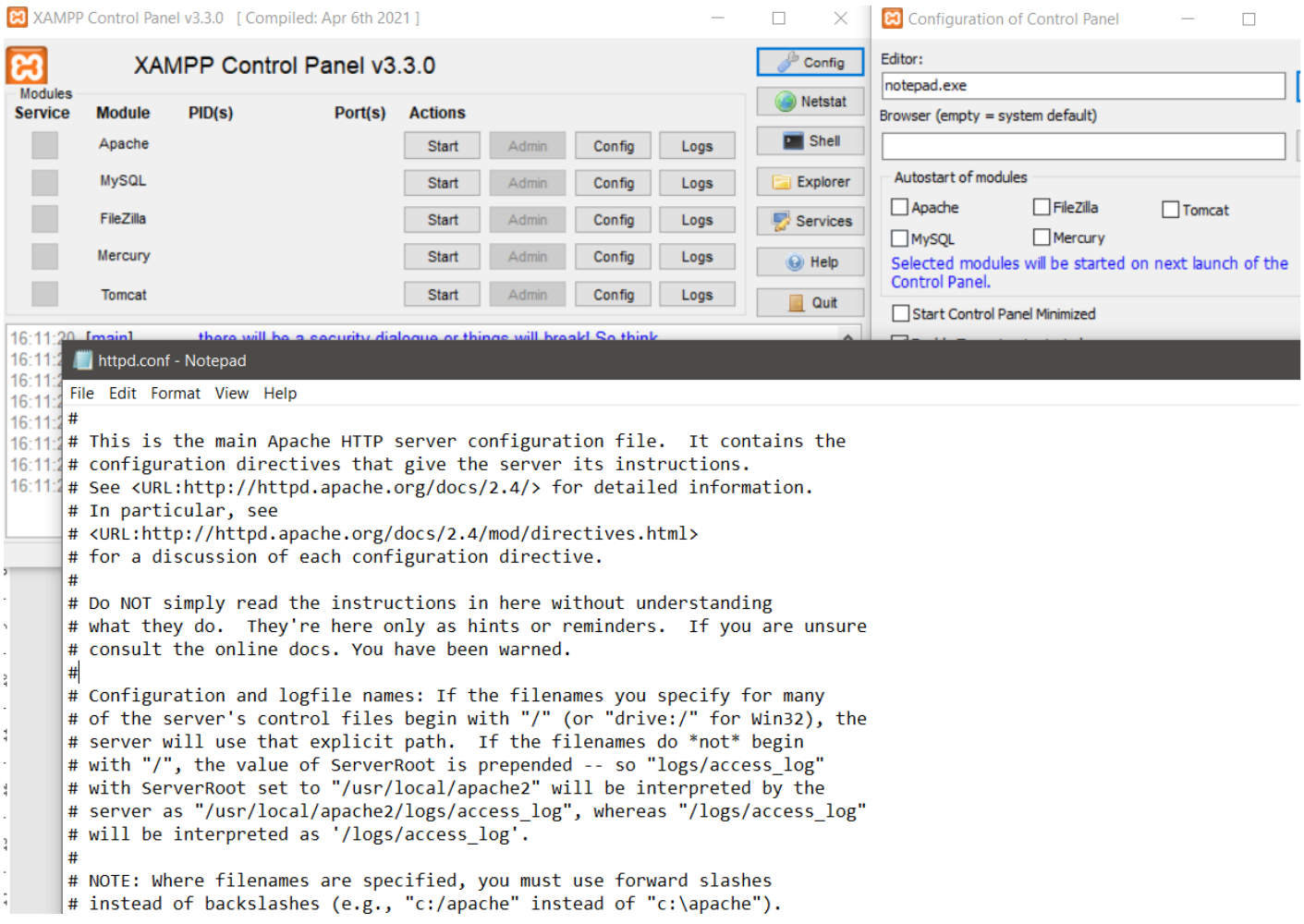
b. **Install –**



c. Running Server –



2. Locate and study its configuration file.



3. **Change the port number in the configuration file to any other valid port number. Rerun the server locally using newly assigned port number.**

ANS:

a. **Old port number –**

```
# directive.
#
# Change this to Listen on specific IP addresses as shown below to
# prevent Apache from glomming onto all bound IP addresses.
#
#Listen 12.34.56.78:80
Listen 80

#
# Dynamic Shared Object (DSO) Support
#
# To be able to use the functionality of a module which was built as a
# have to place corresponding `LoadModule' lines at this location so t
# directives contained in it are actually available _before_ they are
# Statically compiled modules (those listed by `httpd -l') do not neec
# to be loaded here.
#
# Example:
# LoadModule foo_module modules/mod_foo.so
#
LoadModule access_compat_module modules/mod_access_compat.so
LoadModule actions_module modules/mod_actions.so
LoadModule alias_module modules/mod_alias.so
LoadModule allowmethods_module modules/mod_allowmethods.so
```

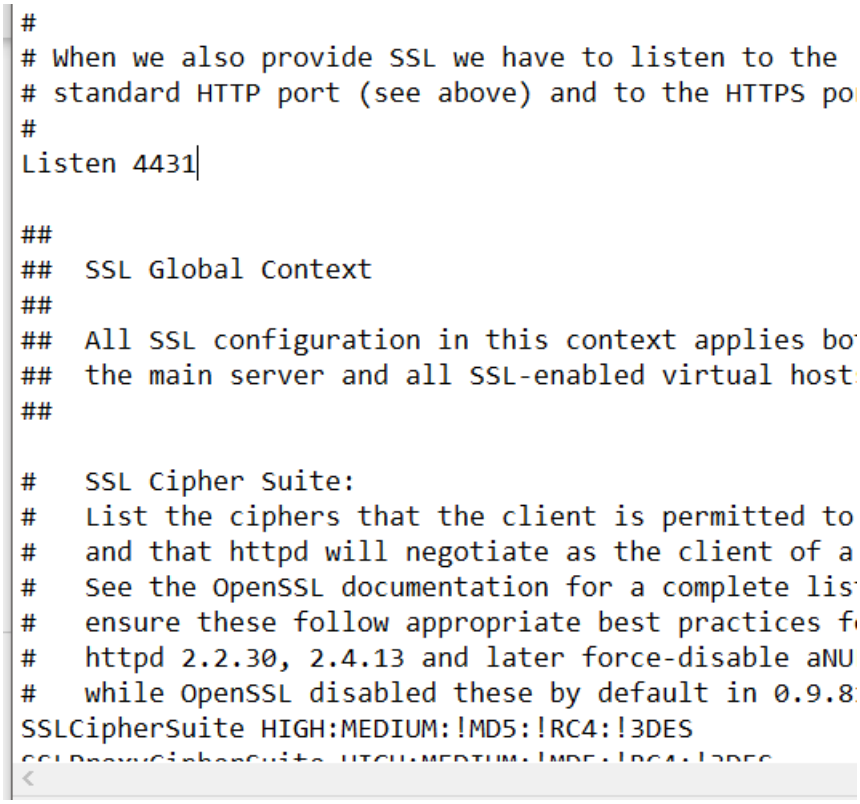
b. **New Port Number –**

```
# Change this to Listen on specific IP addresses as shown below to
# prevent Apache from glomming onto all bound IP addresses.
#
#Listen 12.34.56.78:80
Listen 8012

#
# Dynamic Shared Object (DSO) Support
#
# To be able to use the functionality of a module which was built as a DSO you
# have to place corresponding `LoadModule' lines at this location so the
# directives contained in it are actually available _before_ they are used.
# Statically compiled modules (those listed by `httpd -l') do not need
# to be loaded here.
#
# Example:
# LoadModule foo_module modules/mod_foo.so
#
LoadModule access_compat_module modules/mod_access_compat.so
LoadModule actions_module modules/mod_actions.so
```

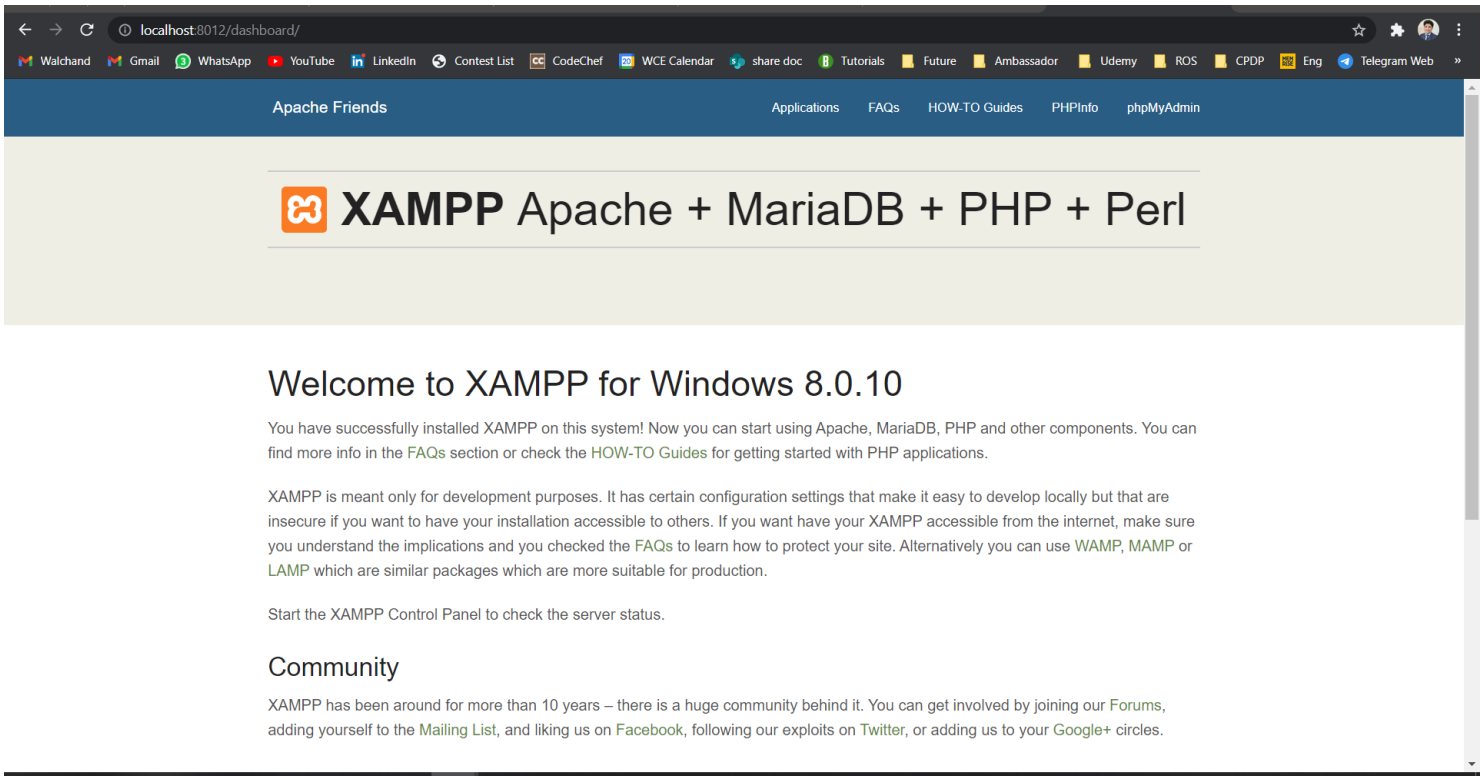
c. Old SSL port –

```
# When we also provide SSL we have to listen to the
# standard HTTP port (see above) and to the HTTPS port
#
Listen 443

##
##  SSL Global Context
##
##  All SSL configuration in this context applies both to
##  the main server and all SSL-enabled virtual hosts.
##

#   SSL Cipher Suite:
#   List the ciphers that the client is permitted to negotiate,
#   and that httpd will negotiate as the client of a proxied server.
#   See the OpenSSL documentation for a complete list of ciphers, and
```

d. New SSL port –

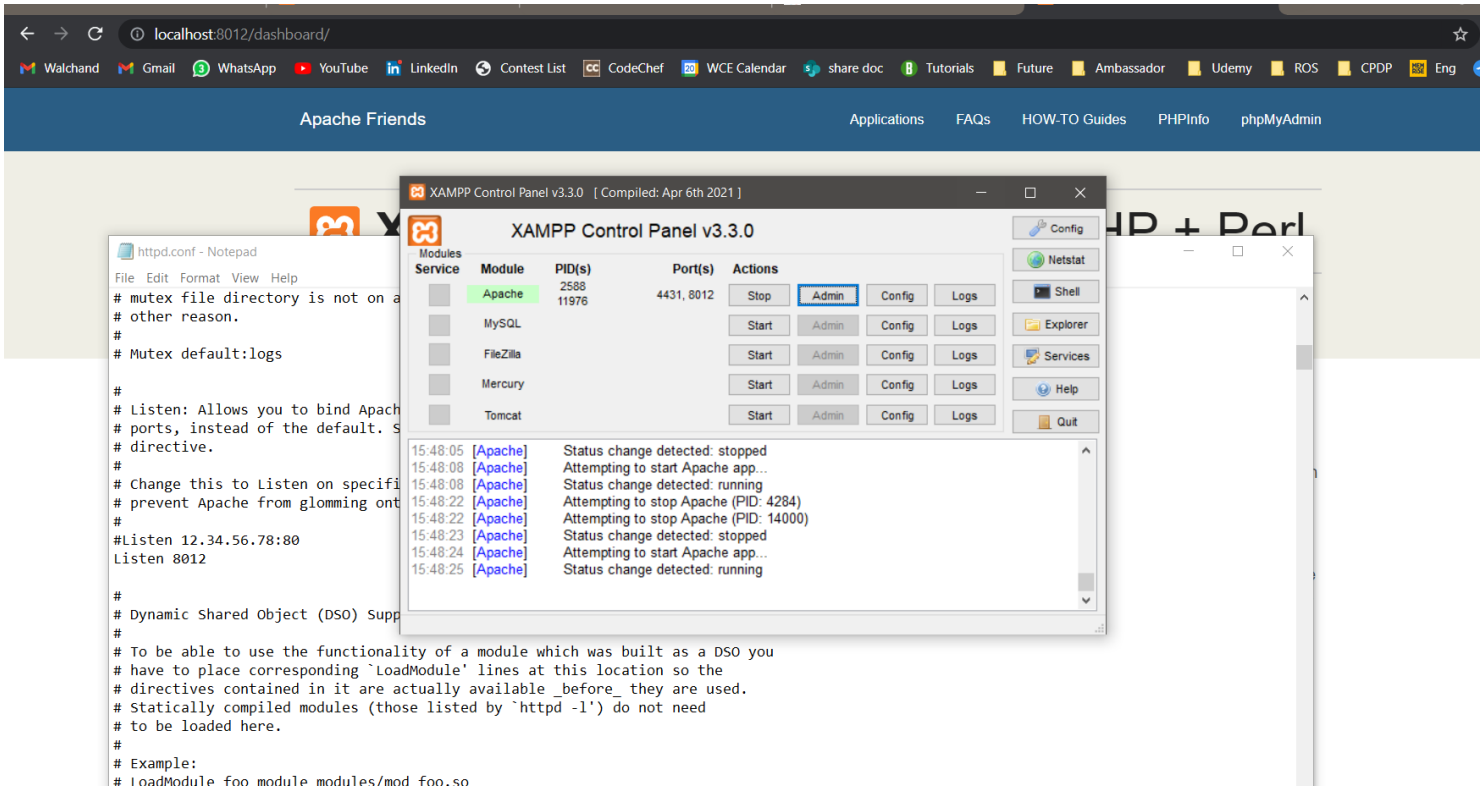


e. Running server with new port number –

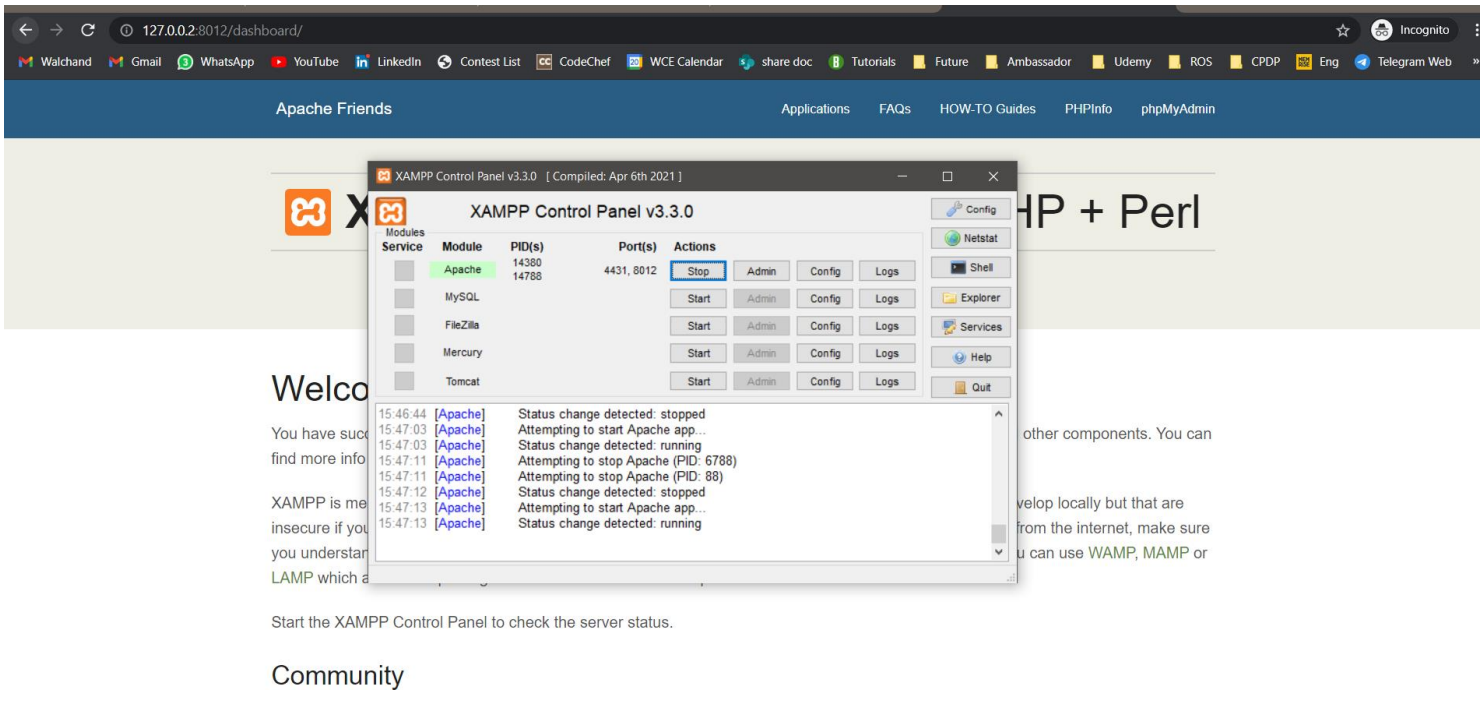


4. Change the default IP address (127.0.0.1 or localhost) and port number of the server in the configuration file to any other valid IP address and port number. Re-run the server and access it in a network from another machine.

.ANS:



Running Server with Old IP address (localhost)



Running Server with New IP address (127.0.0.2 with port 8012)